

CONSTRUCT SHALLOW TRENCH

TOPSOIL STOCKPILE MOUND

NOT TO SCALE

E18

E19

PIPE OUTLET PROTECTION PIPE OUTLET PROTECTION CONSTRUCTION SPECIFICATIONS

POUNDS POUNDS PER PER ACRE 1,000 Sq. Ft..

30 0.75 40 OR 55 0.95 OR 1.3

15 10 15

20 30 50

0.35 0.25 0.35

0.55 0.55 REMOVED 1.10

0.45 0.75

- 1. THE SUB GRADE FOR THE FILTER MATERIAL, GEOTEXTILE FABRIC, AND RIP RAP SHALL BE PREPARED TO THE LINES AND GRADES SHOWN ON THE PLANS.
- 2. THE ROCK OR GRAVEL USED FOR FILTER OF RIP RAP SHALL CONFORM TO THE SPECIFIED GRADATION.
- SPECIFIED GRADATION.

 3. GEOTEXTILE FABRICS SHALL BE PROTECTED FROM PUNCTURE OR TEARING DURING THE PLACEMENT OF THE ROCK RIP RAP DAMAGED AREAS IN THE FABRIC SHALL BE REPAIRED BY PLACING A PIECE OF FABRIC OVER THE DAMAGED AREA OR BY COMPLETE REPLACEMENT OF THE FABRIC, ALL OVERLAPS REQUIRED FOR REPAIRS OR JOINING TWO PIECES OF FABRIC SHALL BE A MINIMUM OF 12 INCHES.
- 4. STONE FOR THE RIP RAP MAY BE PLACED BY EQUIPMENT AND SHALL BE CONSTRUCTED TO THE FULL LAYER THICKNESS IN ONE OPERATION AND IN SUCH A MANNER AS TO PREVENT SEGREGATION OF THE STONE SIZES.

	TABLE	7-24	RECOMMENDED	RIP	RAP	GRADATIO	N RANGES
	d50 SI	ZE=	0.5	FEE	T	6	INCHES
		WEIGHT S THE GIVE	MALLER N d50 SIZE		ROM	OF STONE	(INCHES) TO
		100%		9)		12
		85%		٤	3		11
		50%		6	6		9
)		15%		2	2		3

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E14

WINTER STABILIZATION NOTES

1. All disturbed areas that do not have at least 85% vegetative coverage prior to October 15th, shall be stabilized by applying mulch at a rate of 3-4 tons per acre. All side slopes, steeper than 4:1, that are not directed to swales or detention basins, shall be lined with biodegradable/photodegradable "jute matting" (Excelsior's Curlex II or equal). All other slopes shall be mulched and tacked at a rate of 3-4 tons per acre. The application of mulch and/or jute matting shall not occur over existing snow cover. If the site is active after November 15th, any snow that accumulates on disturbed areas shall be removed. Prior to spring thaw all oreas will be stabilized, as directed above.

2. All swales that do not have fully established vegetation shall be either lined with temporary jute matting or temporary stone check dams (appropriately spaced). Stone check dams will be maintained throughout the winter months. If the swales are to be matted with permanent liners or riprap with engineering fabric, this shall be completed prior to winter shutdown or as soon as they are properly graded and shaped.

3. Prior to Nov. 15th all roadway and parking areas shall be brought up to and through the bank run gravel application. If these areas' elevations are proposed to remain below the proposed subgrade elevation, the subgrade material shall be roughly crowned and a 3" layer of crushed gravel shall be placed and compacted. This will allow the subgrade to shed runoff and will reduce roadway erosion. This crushed gravel does not have to conform to NH DOT 304.3, but shall have between 15—25% passing the #200 sieve and the largest stone size shall be 2". If the site is active after November 15th, any accumulated snow shall be removed from all practing areas.

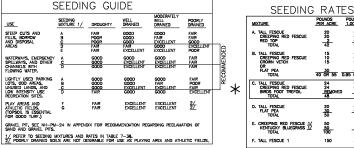
4. After October 15th, the end of New Hampshire's average growing season, no additional loam shall be spread on side slopes and swales. The stockpiles that will be left undistured until spring shall be seeded by this date. After October 15th, any new or disturbed piles shall be mulched at a rate of 3-4 tons per acre. All stockpiles that will remain throughout the winter shall be surrounded with silt fencing.

NOTE: Temporary seed mix for stabilization furf shall be winter rye or oats at a rate of 2.5 lbs. per 1000 s.f. and shall be placed prior to CCT. 15, if permanent seeding not yet complete.

SECTION A-A

PIPE OUTLET TO WELL-DEFINED CHANNEL

NOTE : GEOTEXTILE FABRIC
OR FILTER MATERIAL TO
BE PLACED BETWEEN
RIP RAP AND SOIL.



Slopes shall not be steeper than 2:1;3:1 slopes or flatter are preferred. Where mowing will be done, 3:1 slopes or flatter are recommended.

a. Surface and seepage water should be drained or diverted from the site to prevent drowning or winter killing of the plants.

3. Establishing a Stand

Killing of the piants.
b. Stones larger than 4 inches and trash should be removed because they interfere with seeding and future maintenance of the orea. Where feasible, the soil should be tilled to a depth of about 4 inches to prepare a seedbed and mix fertilizer and lime into the soil. The seedbed should be left in reasonably firm and smooth condition. The last tillage operation should be performed across the slope wherever practical.

a. Lime and fertilizer should be applied prior to or at the time of seeding and incorporated into the soil kinds and amounts of lime and fertilizer should be based on an evaluation of soil tests. When a soil test is not available, the following minimum amounts should be applied:

(Note: This is the equivalent of 500lbs. per acre of 10-20-20 fertilizer or 1,000lbs. per acre of 5-10-10.)

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Agricultural limestone, 2 tons per acre or 100lbs, per 1,000 sq.ft.

Phosphate(P205), 100lbs, per acre or 2.2lbs, per 1,000 sq.ft. Potash(K20), 100lbs. per acre or 2.2lbs. per 1,000 sq.ft.

Nitrogen(N), 50lbs. per acre or 1.1lbs. per 1,000 sq.ft.

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SECTION A-A

PIPE OUTLET TO FLAT AREA

WITH NO DEFINED CHANNEL

SEEDING SPECIFICATIONS

- b. Seed should be spread uniformly by the method most appropriate for the site. Methods include broadcasting, drilling and hydroseeding. Where broadcasting is used, cover seed with .25 inch of soil or less, by cultipacking or raking.
- C. Refer to Table(G-E1 this sheet) for appropriate seed mixtures and Table(H-E1 this sheet) for rates of seeding. All legumes (crownvetch, birdsfoot trefoil, and flatpea) must be inoculated with their specific inoculant.
- d. When seeded areas are mulched, plantings may be made from early spring to early October. When seeded areas are not mulched, plantings should be made from early spring to May 20 or from August 10 to September 1.

- a. Hay, straw, or other mulch, when needed, should be applied immediately after seeding.
- Mulch will be held in place using appropriate techniques from the Best Management Practice for mulching. Hay or straw mulch shall be placed at a rate of 90lbs per 1000 s.f.
- a. Planted area should be protected from damage by fire, grazing, traffic, and dense weed growth.
- Fertilization needs should be determined by onsite inspections. Supplemental fertilizer is usually
 the key to fully complete the establishment of the stand because most perennial stake 2 to 3 years to
 become established.
- In waterways, channels, or swales where uniform flow conditions are anticipated, occasional mowing may be necessary to control growth of woody vegetation.

E22

DEFINITION OF STABLE:

1. WHEN A BASE COURSE GRAVEL HAS BEEN INSTALLED IN AN AREA TO BE PAVED 2. WHEN A MINIMUM OF 85 3. WHEN A MINIMUM OF 85 3. WHEN A MINIMUM OF 87 OF NON-EROSIVE MATERIAL, SUCH AS STONE OR RPF-BAY HAS BEEN INSTALLED.

4. WHEN PROPER EROSION CONTROL BLANCES, SUCH AS CURLEX II, C380 OR OTHER DOT APPROVED MATTHING, HAS BEEN INSTALLED PROPERTY.

E21

4" TOPSOIL (MIN.) AND SEED TO ESTABLISH GROWTH INSTALL GEOTEXTILE FABRIC WITH ANCHOR HOOKS AS PER MANUFACTURES REQUIREMENTS. SUBMIT SHOP DRAWINGS FOR APPROVAL. MAX SLOPE ANCHOR HOOK PER. MANUFACTURER'S REQUIREMENTS SLOPE STABILIZATION DETAIL NOT TO SCALE

OVERLAP EDGES OF PARALLEL BLANKETS WITH APPROXIMATELY EROSION CONTROL MAT OR TURF REINFORCEMENT MAT 2" OVERLAP AND STAKE. STAKE ALONG OVERLAP AT SLOPE TOP OF SLOPE 79117 ANCHOR FARRIC IN 6" DEEP BY 6" WIDE TRENCH AND STAKE AT 6" INTERVALS. BACKFILL AND COMPACT PLACE BLANKETS END OVER END (SHINGLE STYLE) WITH APPROXIMATELY 4" OVERLAP. BURY END OF LOWER FABRIC STAKE OUTSIDE EDGES AT 12" INTERVALS " DEEP AND STAKE AT 6" INTERVALS.

NOTE : STAKING PATTERNS SHALL FOLLOW MANUFACTURERS RECOMMENDATIONS. MINIMUM SPACING 3' - 0" O.C. ACROSS FABRIC.

INSTALLATION OF EROSION CONTROL FABRICS NOT TO SCALE

CONSTRUCTION SEQUENCE:

- 1.) CUT AND REMOVE TREES IN CONSTRUCTION AREA ONLY AS REQUIRED
- 2.) CONSTRUCT AND/OR INSTALL TEMPORARY AND PERMANENT SEDIMENT EROSION AND DETENTION CONTROL FACILITIES AS REQUIRED.
- 3.) EROSION, SEDIMENT AND DETENTION CONTROL FACILITY SHALL BE INSTALLED & STABILIZED PRIOR TO ANY EARTH MOVING OPERATION & OR DIRECTING RUNOFF TO THEM.
- 4.) CLEAR, CLIT AND DISPOSE OF DEBRIS IN APPROVED FACILITY
- 5.) CONSTRUCT TEMPORARY CULVERTS AS REQUIRED, OR DIRECTED
- 6.) CONSTRUCT ROADWAYS FOR ACCESS TO DESIRED CONSTRUCTION AREAS. ALL ROADS SHALL BE STABILIZED IMMEDIATELY
- 7.) INSTALL PIPE AND CONSTRUCTION ASSOCIATED APPURTENANCES AS REQUIRED OR DIRECTED. ALL DISTURBED AREAS SHALL STABILIZED IMMEDIATELY AFTER GRADING.
- 8.) CONSTRUCT FOUNDATION AND CONCRETE PAD.
- 9.) BEGIN PERMANENT AND TEMPORARY SEEDING AND MULCHING, ALL CUT AND FILL SLOPES AND DISTURBED AREAS SHALL BE SEEDED OR MULCHED AS REQUIRED, OR DIRECTED. NO AREA IS ALLOWED TO BE DISTURBED FOR A LENGTH OF TIME THAT EXCEEDS 60 DAYS BEFORE BEING STABILIZED. DAILY, OR AS REQUIRED.
- 10.) CONSTRUCT TEMPORARY BERMS, DRAINS DITCHES, SILT FENCES, SEDIMENT TRAPS, ETC. MULCH AND SEED AS REQUIRED.
- 11.) INSPECT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES DURING CONSTRUCTION
- 12.) COMPLETE PERMANENT SEEDING AND LANDSCAPING.
- 13.) REMOVE TEMPORARY EROSION CONTROL MEASURES AFTER SEEDING AREAS HAVE ESTABLISHED THEMSELVES AND SITE IMPROVEMENTS ARE COMPLETE.
- 14.) SMOOTH AND REVEGETATE ALL DISTURBED AREAS.
- 15.) FINISH GRAVELLING ALL ROADWAYS

DAVID A. BERRY No. 1088

RING ROAD 2-2863}

SURVEYING-ENGINEER CROWN POINT R

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DETAILS

CONSTRUCTION D
FOR
PINGSTONE FARM I
COMMERCE W
BARRINGTON,
TAX MAP 250,

COMMEI COMMEI BARRING TAX MAP

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